

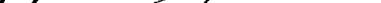


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<p>Substitute for form 1449/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(Use as many sheets as necessary)</i></p> <p>Sheet <b>1</b> of <b>1</b></p>		<b>Complete if Known</b>	
		Application Number	09/743,818
		Filing Date	April 26, 2001
		First Named Inventor	Weiss et al
		Group Art Unit	1653
		Examiner Name	H. Schnizer
Attorney Docket Number		GHC11USA	

## NONPATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	12-6-04
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETE FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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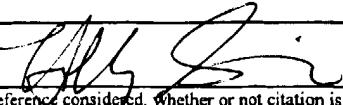
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<p>Substitute for Form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)</p>				Complete if Known	
				Application Number	09/743,818
				Filing Date	January 16, 2001
				First Named Inventor	Anthony S. Weiss
				Group Art Unit	1653
				Examiner Name	H. Schnizer
Sheet	1	of	9	Attorney Docket Number	GHC11USA

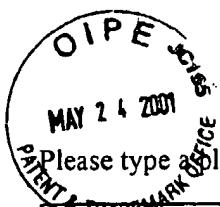
U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited document MM-DD-YYYY
		Number	Kind Code <sup>3</sup> (if known)		
X	AA	6,232,458	B1	A. Weiss 536   235	05/15/2001

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>3</sup> (if known)		
X	AL	WO	WO99/03886	A2	A. Weiss	01/28/1999
X	AM	WO	WO94/14958	A1	A. Weiss	07/07/1994

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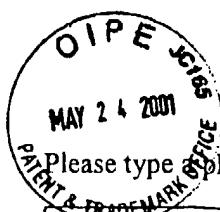
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Substitute for Form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/743,818
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				First Named Inventor	Anthony S. Weiss
				Group Art Unit	1653
				Examiner Name	H. SCHNIZER
Sheet	2	of	9	Attorney Docket Number	GHC11USA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS					
Examiners Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
VS	AR	RICHARD PIERCE et al, "Elements of the Rat Tropoelastin Gene Associated with Alternative Splicing", Genomics, 12:651-658 (1992)			
VS	AS	FAUSTINO BISACCIA et al, "The Amino Acid Sequence Coded by the Rarely Expressed Exon 26A of Human Elastin Contains a Stable β-Turn with Chemotactic Activity for Monocytes", Biochemistry, 37(31):11128-11135 (1998)			
VS	AT	JUI-YOA CHANG, "Thrombin Specificity - Requirement for Apolar Amino Acids Adjacent to the Thrombin Cleavage Site of Polypeptide Substrate", Eur. J. Biochem., 151:217-224 (1985)			
VS	AU	LEONARD GROSSO et al, "PGAI PG, a Repeated Hexapeptide of Bovine and Human Tropoelastin, is Chemotactic for Neutrophils and Lewis Lung Carcinoma Cells", Archives of Biochemistry and Biophysics, 305(2):401-404 (September, 1993)			
VS	AV	CARL FRANZBLAU et al, "Role of Tropoelastin Fragmentation in Elastogenesis in Rat Smooth Muscle Cells", J. Biol. Chem., 264(25):15115-15119 (September 5, 1989)			
VS	AW	AKINOBU HAYASHI et al, "Presence of Elastin-related 45-kDa Fragment in Culture Medium: Specific Cleavage Product of Tropoelastin in Vascular Smooth Muscle Cell Culture", Biochimica et Biophysica Acta, 1244:325-330 (1995)			
VS	AX	JUN KOBAYASHI et al, "Serum-Induced Vascular Smooth Muscle Cell Elastolytic Activity Through Tyrosine Kinase Intracellular Signalling", Journal of Cellular Physiology, 160:121-131 (1994)			
VS	AY	ROBERT MECHAM et al, "Intrinsic Enzyme Activity Associated with Tropoelastin", Biochim. Biophys. Acta., 446:245-254 (1976)			

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				First Named Inventor	Anthony S. Weiss
				Group Art Unit	1653
				Examiner Name	H. SCHNEIDER
Sheet	3	of	9	Attorney Docket Number	GHC11USA

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JS	AZ	ROBERT MECHAM et al, "Trypsin-like Neutral Protease Associated with Soluble Elastin", Biochemistry, 16(17):3825-3831 (1977)	
JS	AAR	ROBERT MECHAM et al, "Proteolysis of Tropoelastin", Adv. Expt. Med. Biol., 79:209-216 (1977)	
JS	AAS	CELESTE RICH et al, "Isolation of Tropoelastin a from Lathyritic Chick Aortae", Biochem. J., 217:581-584 (1984)	
JS	AAT	NADIA ROMERO et al, "Role of Plasma and Serum Proteases in the Degradation of Elastin", Arch. Biochem. Biophys., 244:161-168 (January, 1986)	
JS	AAU	ROBERT RUCKER, "Isolation of Soluble Elastin from Copper-Deficient Chick Aorta", Methods in Enzymology, 82:650-657 (1982)	
JS	AAV	L. SANDBERG et al, "Production and Isolation of Soluble Elastin from Copper-Deficient Swine", Methods in Enzymology, 82:657-665 (1982)	
JS	AAW	A. TORRES et al, "Isolation and Amino Acid Sequence of Some Thrombin Produced Porcine Tropoelastin Peptides", Adv. Expt. Med. Biol., 79:267-276 (1977)	
JS	AAX	STEPHEN MCGOWAN et al, "Serine Proteinase Inhibitors Influence the Stability of Tropoelastin mRNA in Neonatal Rat Lung Fibroblast Cultures", Am. J. Physiol., 270:L376-L385 (1996)	
JS	AAY	ALEKSANDER HINEK et al, "67-kD Elastin-Binding Protein is a Protective "Companion" of Extracellular Insoluble Elastin and Intracellular Tropoelastin", J. Cell Biol., 126(2):563-574 (July, 1994)	

Examiner Signature		Date Considered	12-6-04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/743,818
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				Examiner Name	H. SCHNIZER
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AS	AAZ	JEFFREY DAVIDSON et al, "Regulation of Elastin Synthesis in Organ and Cell Culture", Methods in Enzymology, 144:214-232 (1987)	
BS	BR	ROBERT MECHAM et al, "Elastin Binds to a Multifunctional 67-Kilodalton Peripheral Membrane Protein", Biochemistry, 28:3716-3722 (1989)	
BS	BS	JUDITH FOSTER et al, "The Regulation of Lung Elastin Synthesis", Am. J. Physio., 259:L13-L23 (1990)	
BS	BT	AMANDA EWART et al, "Hemizygosity at the Elastin Locus in a Developmental Disorder, Williams Syndrome", Nature Genetics, 5:11-16 (September, 1993)	
BS	BU	J. TARLTON et al, "Postsurgical Wound Progression Monitored by Temporal Changes in the Expression of Matrix Metalloproteinase-9", British Journal of Dermatology, 137:506-516 (1997)	
BS	BV	ZENA INDIK et al, "Structure of the 3' Region of the Human Elastin Gene: Great Abundance of ALU Repetitive Sequences and Few Coding Sequences", Connective Tissue Research, 16:197-211 (1987)	
BS	BW	J. MICHAEL FRANGISKAKIS et al, "LIM-kinase1 Hemizygosity Implicated in Impaired Visuospatial Constructive Cognition", Cell, 86:59-69 (July 12, 1996)	
BS	BX	MICHAEL FAZIO et al, "Isolation and Characterization of Human Elastin cDNAs, and Age-Associated Variation in Elastin Gene Expression in Cultured Skin Fibroblasts", Laboratory Investigation, 58(3):270-277 (1988)	
BS	BY	LUCY OSBORNE et al, "Identification of Genes from a 500-kb Region at 7q11.23 That is Commonly Deleted in Williams Syndrome Patients", Genomics, 36:328-336 (1996)	

Examiner Signature		Date Considered	12-6-04
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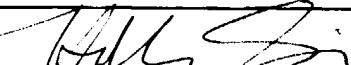
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				Application Number	09/743,818
				Filing Date	January 16, 2001
				First Named Inventor	Anthony S. Weiss
				Group Art Unit	1653
				Examiner Name	H. SCHNIZER
Sheet	5	of	9	Attorney Docket Number	GHC11USA

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiners Initials'	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
HS	BZ	MUHAMMAD BASHIR et al, "Characterization of the Complete Human Elastin Gene", J. Biol. Chem., 264(16):8887-8891 (May 25, 1989)		T <sup>2</sup>
HS	BBR	JAMES SLACK et al, "An Upstream Regulatory Region Mediates High-Level, Tissue-Specific Expression of the Human $\alpha$ 1(I) Collagen Gene in Transgenic Mice", Molecular and Cellular Biology, 11(4):2066-2074 (April, 1991)		
HS	BBS	JUHANI JÄNNÉ et al, "Transgenic Animals as Bioproducers of Therapeutic Proteins", Annals of Medicine, 24:273-280 (1992)		
HS	BBT	R. MERRIFIELD, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", J. Am. Chem. Soc., 85:2149-2154 (July 20, 1963)		
HS	BBU	REINHARD KNORR et al, "New Coupling Reagents in Peptide Chemistry", Tetrahedron Letters, 30(15):1927-1930 (1989)		
HS	BBV	JOEL ROSENBLUM et al, "Regulation of Elastin Gene Expression", Ann. New York Acad. Sci., 624:116-136 (1990)		
HS	BBW	JOEL ROSENBLUM et al, "Structure of the Elastin Gene", Ciba Found. Symp., 192:59-80 (1995)		
HS	BBX	WILLIAM PARKS et al, "Tropoelastin Heterogeneity: Implications for Protein Function and Disease", Am. J. Respir. Cell Mol. Biol., 2:399-406 (1990)		
HS	BBY	JOSEPH CAPPELLO et al, "Genetic Engineering of Structural Protein Polymers", Biotechnol. Prog., 6:198-202 (1990)		
HS	BBZ	VELI-MATTI KAHARI et al, "Deletion Analyses of 5'-Flanking Region of the Human Elastin Gene", J. Biol. Chem., 265(16):9485-9490 (June, 1990)		

Examiner Signature		Date Considered	12-6-04
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(use as many sheets as necessary)				Application Number	09/743,818
				Filing Date	January 16, 2001
				First Named Inventor	Anthony S. Weiss
				Group Art Unit	1653
				Examiner Name	H. SCHNEIDER
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AS	CR	WILLIAM PARKS et al, "Cellular Expression of Tropoelastin mRNA Splice Variants", Matrix, 12:156-162 (1992)			
VS	CS	JOEL ROSENBLUM et al, "Elastin Genes and Regulation of their Expression", in Critical Review in Eukaryotic Gene Expression, CRC Press Inc., 1(3):145-156 (1991)			
AS	CT	DAVID MCPHERSON et al, "Production and Purification of a Recombinant Elastomeric Polypeptide, G-(VPGVG) <sub>19</sub> -VPGV, from Escherichia coli", Biotechnol. Prog., 8:347-352 (1992)			
AS	CU	MAYADA TASSABEHJI et al, "Elastin: Genomic Structure and Point Mutations in Patients with Supravalvular Aortic Stenosis", Human Molecular Genetics, 6(7):1029-1036 (1997)			
AS	CV	MARTIN HOLZENBERGER et al, "Quantitation of Tropoelastin mRNA and Assessment of Alternative Splicing in Human Skin Fibroblasts by Reverse Transcriptase-Polymerase Chain Reaction", PCR Methods and Applications, 3:107-114 (1993)			
AS	CW	STEPHEN MARTIN et al, "Total Synthesis and Expression in Escherichia coli of a Gene Encoding Human Tropoelastin", Gene, 154:159-166 (1995)			
AS	CX	ZENA INDIK et al, "Alternative Splicing of Human Elastin mRNA Indicated by Sequence Analysis of Cloned Genomic and Complementary DNA", Proc. Natl. Acad. Sci. USA, 84:5680-5684 (August, 1987)			
AS	CY	ZENA INDIK et al, "Production of Recombinant Human Tropoelastin: Characterization and Demonstration of Immunologic and Chemotactic Activity", Archives of Biochemistry and Biophysics, 280(1):80-86 (July, 1990)			

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(use as many sheets as necessary)				Filing Date	January 16, 2001
				First Named Inventor	Anthony S. Weiss
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AS	CZ	LOUISE OLIVER et al, "The Gene Coding for Tropoelastin is Represented as a Single Copy Sequence in the Haploid Sheep Genome", Collagen Rel. Res., 7:77-89 (1987)	
AS	CCR	J. SAMBROOK et al, "Molecular Cloning: a Laboratory Manual, 2 <sup>nd</sup> ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1989)	
AS	CCS	GIORGIO BRESSAN et al, "Repeating Structure of Chick Tropoelastin Revealed by Complementary DNA Cloning", Biochemistry, 26(6):1497-1503 (March, 1987)	
AS	CCT	KALIANNAN RAJU et al, "Primary Structures of Bovine Elastin a, b, and c Deduced from the Sequences of cDNA Clones", J. Biol. Chem., 262:5755-5762 (1987)	
AS	CCU	DAVID LIPMAN et al, "Rapid and Sensitive Protein Similarity Searches", Science, 227:1435-1441 (March, 1985)	
AS	CCV	DEBRA BEDELL-HOGAN et al, "Oxidation, Cross-Linking, and Insolubilization of Recombinant Tropoelastin by Purified Lysyl Oxidase", J. Biol. Chem., 268(14):10345-10350 (May, 1993)	
AS	CCW	F. WILLIAM STUDIER et al, "Use of T7 RNA Polymerase to Direct Expression of Cloned Genes", Methods Enzymol., 185:60-89 (1990)	
AS	CCX	JILL GOUGH et al, "Sequence Diversity Among Related Genes for Recognition of Specific Targets in DNA Molecules", J. Mol. Biol., 166:1-19 (1983)	
AS	CCY	W. BULLOCK et al, "XL1-Blue: A High Efficiency Plasmid Transforming recA Escherichia coli Strain with Beta-Galactosidase Selection", BioTechniques, 5(4):376-378 (1987)	

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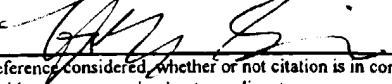
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	CCZ	RUTH HEIM et al, "Alternative Splicing of Rat Tropoelastin mRNA is Tissue-Specific and Developmentally Regulated", Matrix, 11:359-366 (1991)		
	DR	HELENA YEH et al, "Sequence Variation of Bovine Elastin mRNA due to Alternative Splicing", Collagen Rel. Res., 7:235-247 (1987)		
	DS	DONALD SMITH et al, "Single-Step Purification of Polypeptides Expressed in Escherichia coli as Fusions with Glutathione S-transferase", Gene, 67:31-40 (1988)		
	DT	MICHAEL FAZIO et al, "Cloning of Full-length Elastin cDNAs from a Human Skin Fibroblast Recombinant cDNA Library: Further Elucidation of Alternative Splicing Utilizing Exon-specific Oligonucleotides", J. Invest. Dermatol., 91:458-464 (1988)		
	DU	DAN URRY et al, "Temperature Dependence of Length of Elastin and its Polypentapeptide", Biochemical and Biophysical Research Communications, 141(2):749-755 (December, 1986)		
	DV	RAO RAPAKA et al, "Synthesis of Polypeptide Models of Elastin, Synthesis and Properties of a Cross-linked Polytetrapeptide", Int. J. Peptide Protein Res., 21:352-363 (1983)		
	DW	L. SANDBERG et al, "Tropoelastin Purification from Copper-Deficient Swine: a Simplified Method", Biochim. Biophys. Acta., 236:542-545 (1971)		
	DX	ELIZABETH MURRAY et al, "Codon Usage in Plant Genes", Nucl. Acids Res., 17(2):477-498 (1989)		
	DY	SHIPING ZHANG et al, "Low-Usage Codons in Escherichia coli, yeast, fruit fly and primates", Gene, 105:61-72 (1991)		

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Sheet	9	of	9	Attorney Docket Number	GHC11USA

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Examiners Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
AB	DZ	DAVID EYRE et al, "Cross-Linking in Collagen and Elastin", Ann. Rev. Biochem., 53:717-748 (1984)		
AB	DDR	KAREN REISER et al, "Enzymatic and Nonenzymatic Cross-Linking of Collagen and Elastin", FASEB J., 6:2439-2449 (1992)		
	DDS	PAUL SHARP et al, "Potential Applications", Nucl. Acids Res., 15:1281-1295 (1987)		
AB	DDT	SHIGEYUKI YOSHIFUJI et al, "Chemical Conversion of L- $\alpha$ , $\omega$ -Diamino Acids to L- $\omega$ -Carbamoyl- $\alpha$ -amino Acids by Ruthenium Tetroxide Oxidation", Chem. Pharm. Bull., 35:2994-3000 (1987)		

Examiner Signature		Date Considered	12-6-04
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\* EXAMINER: Initials if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.